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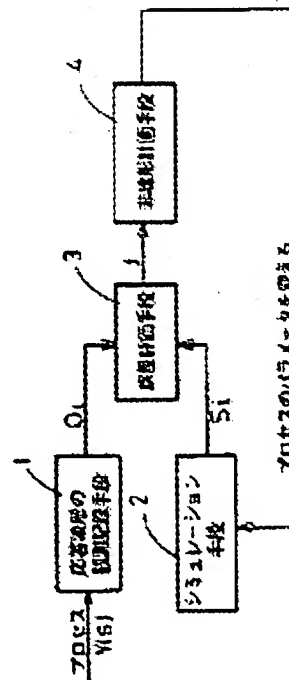
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PURPOSE: To identify a feedback system in its closed loop state by converting the deviation between an output answer waveform of a process and an answer waveform received from a simulating function into a function of evaluation and changing the parameter of the simulating function by a nonlinear programming to define the parameter having the minimum function of evaluation as an estimated parameter. **CONSTITUTION:** The output answer waveform of a feedback system is observed and compared with an answer waveform received from a simulation means 2 of a process whose parameter is set under the initial conditions. The deviation of answer between both waveforms is converted into a function of evaluation and the parameter of the function 2 is changed by a nonlinear programming means 4. Thus a parameter having the minimum function of evaluation is obtained and defined as an estimated parameter of the process. In such a way, the process can be accurately carried out in its closed loop state. Then it is possible to identify a real plant without setting it under a dangerous state of an open loop.



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